AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

- (Previously Presented) A method to improve quality of black and white images of tag-based color imaging systems in a color image path, comprising:
 - a) receiving data processed from an input image;
 - receiving image analysis tags associated with the pixels of said input image data;
 - c) providing said tags to each channel of said image processing module to control image processing;
 - d) performing image processing on said image data to provide a video signal output thereof;
 - e) replicating said video output signal on all output channels of said image processing module;
 - f) merging each video signal from each of said output channels based on the tags; and
 - g) outputting said merged video signal.
- 2. (Previously Presented) A method to improve image quality as in **claim 1** wherein the tags are determined from one or more characteristics of the image through segmentation.
- 3. (Previously Presented) A method to improve image quality as in **claim 1** wherein the received data processed from said input image is obtained from a memory.

- 4. (Previously Presented) A method to improve image quality as in **claim 1** wherein said tags are generated in an image analysis module.
- 5. (Previously Presented) A method to improve image quality as in **claim 4** wherein said tags describe for each pixel its classification (e.g., continuous tone, low frequency halftone, high frequency halftone, text, etc).
- 6. (Previously Presented) A method to improve image quality as in **claim 1** wherein said image processing includes filtering, Tonal Reproduction Curves or TRCs, and rendering based.
- 7. (Previously Presented) A method to improve image quality as in **claim 1** wherein different de-screen filters with various cut-off frequencies and enhancement filters are applied to the image based on pixel classification.
- 8. (Previously Presented) A method to improve image quality as in **claim 1** wherein said image processing comprises multiple resources to enhance image quality.
- 9. (Previously Presented) A method to improve image quality as in **claim 1** wherein additional channel modes are utilized in a CMYK image path for processing in 3-channel color space.
- 10. (Previously Presented) A method to improve image quality as in **claim 1** wherein a 4th channel provides resources for the luminance channel.

- 11. (Previously Presented) A method to improve image quality as in claim 1 wherein additional channel modes are utilized in a color image path for processing in 1-channel Black and White mode.
- 12. (Currently Amended) A system for improving the quality of black and white images in a color image path of tag-bases color imaging systems, comprising: at least one processor in communication with a storage device; sufficient software and hardware to perform:
 - a) receiving data processed from an input image;
 - b) receiving image analysis tags associated with the pixels of said input image data;
 - c) providing said tags to each channel of said image processing module to control image processing;
 - d) performing image processing on said image data to provide a video signal output thereof;
 - e) replicating said video output signal on all output channels of said image processing module;
 - f) merging each video signal from each of said output channels based on the tags; and
 - g) outputting said merged video signal on; and
 - h) a device for rendering said merged video signal.
- 13. (Currently Amended) A system for improving image quality as in **claim** 11 12 wherein the tags are determined from one or more characteristics of the image through segmentation.

- 14. (Currently Amended) A system for improving image quality as in **claim 11** 12 wherein the received data processed from said input image is obtained from a memory.
- 15. (Currently Amended) A system for improving image quality as in **claim 11** 12 wherein said tags are generated in an image analysis module.
- 16. (Previously Presented) A system for improving image quality in **claim 15** wherein said tags describe for each pixel its classification (e.g., continuous tone, low frequency halftone, high frequency halftone, text, etc).
- 17. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein said image processing includes filtering, Tonal Reproduction Curves or TRCs, and rendering based.
- 18. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein different de-screen filters with various cut-off frequencies and enhancement filters are applied to the image based on pixel classification.
- 19. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein said image processing comprises multiple resources to enhance image quality.
- 20. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein additional channel modes are utilized in a CMYK image path for processing in 3-channel color space.

- 21. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein a 4th channel provides resources for the luminance channel.
- 22. (Currently Amended) A system for improving image quality in **claim 11** 12 wherein additional channel modes are utilized in a color image path for processing in 1-channel Black and White mode.